

RETRO-75 ENCLOSURE KIT



Materials:

The Retro-75 Enclosure kit contains the following :

Qty.	Description	Supplier Part. No.	Supplier
1	Large knob	450-2039	M
1	Medium Knob	450-2036	M
1	Gain Pot- 50K audio taper, w/ switch	31XP405-F	M
1	Tuning Pot- 100K linear taper	31VA501-F	M
2	Toggle Switch, SPDT	1055-TA1130-EVX	M
2	Mic, Speaker Jacks, 3.5mm	161-3402-E	M
1	DC power jack, 2.1/5.5mm	163-4304	M
1	DC power plug, 2.1/5.5mm	1710-2131	M
1	BNC bulkhead connector	161-9323	M
1	DC power wire, 2' (0.7m)	100280	J
1	RG-174/U coax, 3"		J
2	Ribbon wire, 10-cond. Multicolor, 6"	Various	-
1	Panel-mount LED	L10061	D
1	4.7K 1/4W resistor	291-4.7K-RC	M
4	'Bumpon' self-adhesive pads	517-SJ-5012BK	M
3	Nylon standoff post	561-DMSP250	N
2	Sheet metal screw, black finish	(Ten-Tec -furnished)	-
1	Enclosure, modified TPC-43	Ten-Tec - custom	-

Key to suppliers; M: Mouser Electronics D: Digikey J: Jameco Electronics

Assembly instructions:

The full-page illustration (next page) shows wire hookup for the Retro-75 board

Note that wire insulation colors are non-critical. The wiring sequence is at your convenience. The following general guidelines apply:

- If you're interested in a neat appearance to the inside of the unit, you can route all wiring under the printed circuit board. Observe the caution about not 'bundling'; the AF gain pot wiring.
- Add all necessary wiring to the circuit board prior to installation in the enclosure.
- Although this kit supplies small-diameter coax for the antenna connection, its use amounts to 'overkill for this 3.9 MHz application. I strip the outer insulation off the coax and run a separate 'center' connection and ground braid to the BNC connector.

Connectors and Controls are mounted to the end panels in the positions shown on the following page and the first-page photo. Secure all connectors firmly with a needle-nose pliers or vise-grip pliers as appropriate.

- Wire to all connectors and controls as illustrated on the next page. It's a good idea to leave a little slack in each group of wires- in case you need to remove and replace a connector.

Front panel LED installation:

This LED illuminates when the T/R switch is in the 'Transmit' position.

The panel-mount LED supplied with this kit should be press-fit into the 1/8" hole directly above the T/R switch (front panel, right side). A firm push with both thumbnails should seat it fully.



Connect the supplied 4.7K resistor to the *switched* 12V power on the T/R switch.

Connect the other end of the resistor to the longer of the two LED leads. Connect a wire from the shorter LED lead to the lug on the tuning pot which corresponds to 'ground'.

If you're not sure which pot lead is ground, check continuity with a multimeter set to a resistance scale. The grounded lug will measure near zero ohms resistance to a printed-circuit board ground

